

WHAT IS CLAIMED IS:

1. A New Guinea impatiens plant comprising a flower having at least one petal which exhibits a striped pattern.

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2. The New Guinea impatiens plant of claim 1, wherein the plant has a pedigree which includes the plant 1865 or 2581.

3. Pollen of the plant of claim 1.

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4. An ovule of the plant of claim 1.

5. A tissue culture comprising regenerable cells of the plant of claim 1.

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6. A cutting of the plant of claim 1.

7. A method for producing a New Guinea impatiens plant having a flower with at least one petal which exhibits a striped pattern, the method comprising the steps of: irradiating a New Guinea impatiens plant with electromagnetic radiation or ion beams and selecting a shoot from said plant containing a flower having at least one petal which exhibits a striped pattern.

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8. The method of claim 7 wherein the New Guinea impatiens plant is a cutting or a whole plant.

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9. The method of claim 7 wherein the New Guinea impatiens plant is irradiated with gamma rays, x-rays or ultraviolet rays.

10. The method of claim 7 wherein the New Guinea impatiens plant is irradiated with from about 1.5 to about 3.5 krad of electromagnetic radiation or ion beams.

11. A New Guinea impatiens plant comprising a flower having at least one petal which exhibits a striped pattern produced by the method of claim 7.

5 12. Pollen of the plant of claim 11.

13. An ovule of the plant of claim 11.

10 14. A tissue culture comprising regenerable cells of the plant of claim 11.

15. A cutting of the plant of claim 11.

15 16. A method for producing a New Guinea impatiens plant having a flower with at least one petal which exhibits a striped pattern, the method comprising the steps of: treating a New Guinea impatiens plant with a chemical mutagen and selecting a shoot from said plant containing a flower having at least one petal which exhibits a striped pattern.

20 17. The method of claim 16 wherein the New Guinea impatiens plant is a cutting or a whole plant.

18. The method of claim 16 wherein the chemical mutagen is ethyl methane sulphonate, methyl methane sulphonate, diethyl sulphate, nitrosoguanidine, ethylnitrosourea or methylnitrosourea.

25 19. A New Guinea impatiens plant comprising a flower having at least one petal which exhibits a striped pattern produced by the method of claim 16.

20. Pollen of the plant of claim 19.

21. An ovule of the plant of claim 19.

22. A tissue culture comprising regenerable cells of the plant of claim 19

5 23. A cutting of the plant of claim 19.

24. A method for altering the color of the petals of a flower of a New Guinea  
impatiens plant, the method comprising the steps of: treating a New Guinea impatiens plant with  
electromagnetic radiation or ion beams and selecting a shoot from said plant containing a flower  
10 having at least one petal exhibiting an altered color.

25. The method of claim 24 wherein the New Guinea impatiens plant is a cutting or a  
whole plant.

15 26. The method of claim 24 wherein the New Guinea impatiens plant is irradiated with  
gamma rays, x-rays or ultraviolet rays.

27. The method of claim 24 wherein the New Guinea impatiens plant is irradiated with  
from about 1.5 to about 3.5 krad of electromagnetic radiation or ion beams.

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28. A New Guinea impatiens plant comprising a flower having at least one petal which  
exhibits an altered color produced by the method of claim 24.

29. The New Guinea impatiens plant of claim 28, wherein the plant has a pedigree  
25 which includes the plant 2582.

30. Pollen of the plant of claim 28.

31. An ovule of the plant of claim 28.

32. A tissue culture comprising regenerable cells of the plant of claim 28.

33. A cutting of the plant of claim 28.

5           34. A method for altering the color of the petals of a flower of a New Guinea  
impatiens plant, the method comprising the steps of: treating a New Guinea impatiens plant with a  
chemical mutagen and selecting a shoot from said plant containing a flower having at least one  
petal exhibiting an altered color.

10           35. The method of claim 34 wherein the chemical mutagen is ethyl methane  
sulphonate, methyl methane sulphonate, diethyl sulphate, nitrosoguanidine, ethylnitrosourea or  
methylnitrosourea.

15           36. A New Guinea impatiens plant comprising a flower having at least one petal which  
exhibits an altered color produced by the method of claim 34.

37. Pollen of the plant of claim 36.

38. An ovule of the plant of claim 36.

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39. A tissue culture comprising regenerable cells of the plant of claim 36.

40. A cutting of the plant of claim 36.